



## REPLACEMENT SHEET

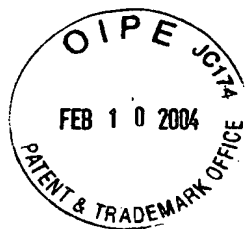
1/13

The intron sequences between exons 2 - 3 and exons 18 - 19 are missing (introns: small letters, exons: capital letters). Small letters in the first exon indicate nucleotides that have not been unambiguously determined.

*Exon 1*

```
1  CGGGTGAATC CCGGCGCCGC GCCCCGGACC CGCAGCTCCC TGCCTCCTC
51  CCTCCCAGCC GCTTTAACAC CCACACCCCA CAGTCTCTCC CACGsCCGCG
101 CCTTGGCGGC CCCACTGAAT CCCTACGCGG GGCCCAGCGG TACCGGGAGA
151 CCGGGCTAGC CTATGGGAGC GCCCAGATAA CGCGGGTTGG GGGCGCCCCG
201 GCCCCcATCC CCGCCAGCAT GACTCGATCG CCGCCCCCTCA GAGAGCTGCC
251 CCCGAGTTAC ACACCCCCAG CTCGAACCGC AGCACCCCAG gtgagtagag
301 ggggagctgg aagaaggaag agagcggagc caggtctgtc actcgggcct
351 ctgcaaggtt tgtgatgtct tgaagtgccg agtgtcatta gatgtctgaa
401 ggcaagtgag agccagcacc gcaagcaagt tgtgcgtgtg tgtcgggtgtg
451 tctgtgccgg tgtctcctca tcgtctggcc agtgagaatg aatgtctgtg
501 ggttcacctc tgtgtccacc cgacgacagg tgtgtgtaca tatgtatcct
551 gctctcagaa aatgggccta tgccgccggg cgcggtgact cagcctgta
601 atcccaacac tgggaggctg aggcaggcag attacctgag gtcaggagtt
651 cgagaccagc caggccaaca tggggaaact ctgtctctac taaaaataaa
701 aattagcagg gcgtgggtggc gggcgccctgt agtcccaact actcgggagg
751 ctgaggcagg agaattctctt gaacctggga ggcggagggtt gcagtcaagc
801 cgagatcaca ccactgcact ccagccaggg caacagagcg agatgcgtct
851 caaaaaaaaa aaaaaaaaaa aaaaggagag aaaacaaaaa gaaaagaaag
901 gaaaataggc ctatgccttc ctcagggtgtg tgctggggat ggtgggtgtt
951 acatcttcca agtctgggcc tgtgtctgtg ttggtgctcc ctgtcccaca
1001 tccagaaatc aagaagcgag ggctgggcag cagatatata gggtgagaag
```

Fig.1A



## REPLACEMENT SHEET

2/13

1051 ggaaggattt catgcattgt tacagtgatg cctggctgac ccttctcttt  
EXON 2  
1101 ccatcccagA TCCTAGCTGG GAGCCTGAAG GCTCCACTCT GGCTTCGTGC  
1151 TTA CTTCAG GGCCTGCTCT TCTCTCTGGG ATGCGGGATC CAGAGACATT  
1201 GTGGCAAAGT GCTCTTTCTG GGACTGTTGG CCTTTGGGGC CCTGGCATT  
1251 GGTCTCCGCA TGGCCATTAT TGAGACAAAC TTGGAACAGC TCTGGGTAGA  
1301 AGTGGGCAGC CGGGTGAGCC AGGAGCTGCA TTACACCAAG GAGAAGCTGG  
1351 GGGAGGAGGC TGCATACACC TCTCAGATGC TGATACAGAC CGCACGCCAG  
1401 GAGGGAGAGA ACATCCTCAC ACCCGAAGCA CTGGCCTCC ACCTCCAGGC  
1451 AGCCCTCACT GCCAGTAAAG TCCAAGTATC ACTCTATGGG AAG.....  
1501 .....g  
1551 tgagtctggc tgagcccctg agcagctggg ggcgaggcgt gctgtggggg  
1601 ttctggagtg ggaatcccct tcttctgctg atctcctatg cccctggcta  
EXON 4  
1651 ttgcagTCCT GGGATTTGAA CAAAATCTGC TACAAGTCAG GAGTCCCCCT  
1701 TATTGAAAAT GGAATGATTG AGCGGgtaag tgcctgaga gggagtagag  
1751 gcagaacttt ttctgtagcg tgggaggact cagagaccga gcaagcccca  
1801 cagcctgcaa tctgccccct taaaactaag gagggggatt gcagagggca  
1851 tcctacaaag gttgtggggc aggactgacg tggcccgggg tatccctggc  
EXON 5  
1901 agATGATTGA GAAGCTGTTT CCGTGCGTGA TCCTCACCCC CCTCGACTGC  
1951 TTCTGGGAGG GAGCCAAACT CCAAGGGGGC TCCGCCTACC TGCCgtgagt  
2001 gccactcctg gggccctgct tcatctcccg ctggggactc tcccagcaga  
2051 aaggaggggt ctggggaatg aggatgatca aaaccttacc aaggtcctaa  
2101 ttacctccca ggccaggaac agagagcatg ggcttcccca aggtctctct  
2151 cacatcctcc ttctctttcc ctctcaagga aggaagacct gacttattta  
2201 cacaaaacta aacacaaaga tctgtaagat ctgagcaaag gagaaaaaga  
2251 tccccacaaa gaggctttgc tgggggaaat tacctaggtg tttgctaagc  
2301 cattgcccag gccagaaaga aaacctgcta caggcatgtg cctgctgggt  
2351 gtatattaga accaagcaca cagcttggtg aggaactcag tggggccttt

Fig.1B



## REPLACEMENT SHEET

3/13

2401 ctgggccctt tctatgtatt aggtaaccct gccctgatat tcgtctcagc  
2451 cccttgact cttctacagc tctactgtagc accctgggtgg gcccatgcag  
2501 cctggcagtt ctgagaagct gaggtttgca caccctccat atggaaggac  
2551 aaatcggcag ataagaggag ggtgggggtac agcatggcgc cccagcagca  
2601 gtttgagacc tgggttttcg tccctgaccc tcaccaacta taggcttttc  
EXON 6  
2651 cctcagCGGC CGCCCGGATA TCCAGTGGAC CAACCTGGAT CCAGAGCAGC  
2701 TGCTGGAGGA GCTGGGTCCC TTTGCCCTCCC TTGAGGGCTT CCGGGAGCTG  
2751 CTAGACAAGG CACAGGTGGG CCAGGCCTAC GTGGGGCGGC CCTGTCTGCA  
2801 CCCTGATGAC CTCCACTGCC CACCTAGTGC CCCCACCAT CACAGCAGGC  
2851 AGgtgggttc caaccaggtc tgccaggga aggctgtttt ccttcccttt  
2901 cccttctca tactcctgtg ttctggggga gctgactgct ctgtgccctg  
2951 acccccccact tcctggccat tattaccctg ctcccacagt gccaggcccc  
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3101 tttttttttt ttgagtctca ctctgtcacc caggctggag tgcagtagtt  
3151 cgatcttggc tctactgcaac ctcggtcaa gcaattctcc tgccttagcc  
3201 tcctgagtag ctgggattac aggtgcccac caccatgccc ggctaatttt  
3251 tattagcctc ccaaagtgt gggattacag gcgtgagcca ctgcgcctgg  
3301 ccaaggctgg actttttatc aaaatagact aatacaggga aactaagaac  
3351 acagcaggta agcatgaata tcatacctgg tttcccaggt ttctttgtgg  
3401 ccctgcaa at gtggtacttt ttccagaatc cgccagttac accagctcct  
3451 cccagaagcc tacttccagg cctctgcttc cccttggggc ttctgtctg  
3501 cgggatacta gctgttact cctgcagagc agtcaagagg ctcaagaatag  
3551 ttacctacac tccagcccta ctgagcttca tggcagcgtg gttcctggag  
3601 gtggaagccc agggacactc agttatccac ggccagggcc ttgagcatta  
EXON 7  
3651 acccctcctg ttccctcca gGGCTCCCAA TGTGGCTCAC GAGCTGAGTG  
3701 GGGGCTGCCA TGGCTTCTCC CACAAATTCA TGCCTGGCA GGAGGAATTG

Fig.1C

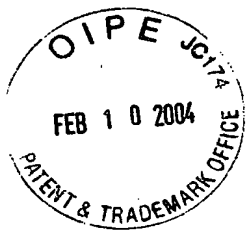


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4/13

3751 CTGCTGGGAG GCATGGCCAG AGACCCCCAA GGAGAGCTGC TGAGgtaggg  
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3851 aatgccaggc agctctggca aaaggccctt cacatccctc accagggtgtt  
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4101 caaggacaag gggggtgccc tgaggccatt ccctcctcct gccccctcct  
4151 atccaccctg tttctccagC TGGCCCAGGA GGCCCTGCCT GAGAACGCTT  
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4251 GCGTTCTCTG AAGTCAGTGC TGCCCGTGTG GTGGGAGGCT ATCTGCTCAT  
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4351 ccaccctggg agccctgag actgccctt cccccacag CTGGCCTATG  
4401 CCTGTGTGAC CATGCTGCGG TGGGACTGCG CCCAGTCCCA GGGTTCCTG  
4451 GGCCTTGCCG GGGTACTGCT GGTGGCCCTG GCGGTGGCCT CAGGCCTTGG  
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4551 gccaggactg cagggcagac tcagtgccag tcaccaggct tcacgggtcc  
4601 tcagctgccc gctcctctgc ccctccagGT GCTGCCCTTC TTGGCTCTGG  
4651 GAATCGGCGT GGATGACGTA TTCCTGCTGG CGCATGCCTT CACAGAGGCT  
4701 CTGCCTGGCA CCCCTCTCCA Ggtggggcct tgtccccag ggctcatctg  
4751 aggcagctca gcttactggt taagagcctc ttggttcaag tgacccttgg  
4801 gctgctaatag aacctcggtg cctcttgctc ccatctgtaa acaggggaaa  
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4901 agttgaatgc ttagaacagc ccatcatacg tacatggtac ccaataaatg  
4951 ctagccactg tggtatgact gccccacctc tgcaccccaa gttcctgagc  
5001 ctcccccttca ctccactttg acacggcccc tcccttgatga cctgagggga  
5051 ggtccccact ctgtcctggc agGAGCGCAT GGGCGAGTGT CTGCAGCGCA

Fig.1D



# REPLACEMENT SHEET

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5101 CGGGCACCAG TGTCGTACTC ACATCCATCA ACAACATGGC CGCCTTCCTC  
5151 ATGGCTGCCC TCGTTCCCAT CCCTGCGCTG CGAGCCTTCT CCCTACAGGC  
5201 GGCCATAGTG GTTGGCTGCA CCTTTGTAGC CGTGATGCTT GTCTTCCCAG  
5251 CCATCCTCAG CCTGGACCTA CGGCGGCGCC ACTGCCAGCG CCTTGATGTG  
5301 CTCTGCTGCT TCTCCAGgta ctgcggtgcgc cccagccccct tcctcccgtg  
5351 acccacgcca gcctgtcccc tcaccagcat ttcaaggcac agacctgtca  
EXON 13  
5401 tccactctct acctcttcca gTCCCTGCTC TGCTCAGGTG ATTACAGATCC  
5451 TGCCCCAGGA GCTGGGGGAC GGGACAGTAC CAGTGGGCAT TGCCCCACCTC  
5501 ACTGCCACAG TTCAAGCCTT TACCCACTGT GAAGCCAGCA GCCAGCATGT  
5551 GGTCACCATC CTGCCTCCCC AAGCCACCT GGTGCCCCCA CCTTCTGACC  
5601 CACTGGGCTC TGAGCTCTTC AGCCCTGGAG GGTCACACG GGACCTTCTA  
5651 GGCCAGGAGG AGGAGACAAG GCAGAAGGCA GCCTGCAAGT CCCTGCCCCG  
5701 TGCCCCGCTGG AATCTTGCCC ATTTGCCCCG CTATCAGTTT GCCCCGTTGC  
5751 TGCTCCAGTC ACATGCTAAG gtaagactgg gcagagcagg gcagagactt  
5801 agcatctctg ggcccagaag ggcagagagg gcttagtcca ctgcctgagg  
EX  
5851 ggctgggggc agccctgggg tctccagctt agttgctaca tcccgcagGC  
XON 14  
5901 CATCGTGCTG GTGCTCTTTG GTGCTCTTCT GGGCCTGAGC CTCTACGGAG  
5951 CCACCTTGGT GCAAGACGGC CTGGCCCTGA CGGATGTGGT GCCTCGGGGC  
6001 ACCAAGGAGC ATGCCTTCCT GAGCGCCCAG CTCAGGTACT TCTCCCTGTA  
6051 CGAGGTGGCC CTGGTGACCC AGGGTGGCTT TGA CTACGCC CACTCCCAAC  
6101 GCGCCCTCTT TGATCTGCAC CAGCGCTTCA GTTCCCTCAA GGCGGTGCTG  
6151 CCCCCACCGG CCACCCAGGC ACCCCGCACC TGGCTGCACT ATTACCGCAA  
6201 CTGGCTACAG Ggtgagaggc gaggagacgg gcagggaggg gtgctgcagg  
6251 gagaaacgcc ctgggggccac cagctaataag aaccctatcc tgggtctcccc  
EXON 15  
6301 cagGAATCCA GGCTGCCTTT GACCAGGACT GGGCTTCTGG GCGCATCACC  
6351 CGCCACTCGA CCGCAATGGC TCTGAGGATG GGGCCCTGGC CTACAAGCTG  
6401 CTCATCCAGA CTGGAGACGC CCAGGAGCTT CTGGATTTC GCCAGgttgg

Fig.1E



# REPLACEMENT SHEET

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6451 gagagggctg gaggggtcca ctagtacagg ggctgcaggc ctcctgggcc  
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6601 GTGGGTGAGC AGTGACCCCC TGGGTCTGGC AGCCTCACAG GCCAACTTCT  
6651 ACCCCCCACC TCCTGAATGG CTGCACGACA AATACGACAC CACGGGGGAG  
6701 AACTTTCGCA gtgagtcttg gggggagctc ggcaagagcc tcagcctcgc  
6751 ccacacaagc cctgagcctg aggccctgcc cactctgccc cgtgctcacc  
EXON 17  
6801 gccctgtccc tctccctctt ctcccttccc ctcccctcca cagTCCCGCC  
6851 AGCTCAGCCC TTGGAGTTTG CCCAGTTCCC TTTCTGCTG CGTGGCCTCC  
6901 AGAAGACTGC AGACTTTGTG GAGGCCATCG AGGGGGCCCG GGCAGCATGC  
6951 GCAGAGGCCG GCCAGGCTGG GGTGCACGCC TACCCAGCG GCTCCCCCTT  
7001 CCTCTTCTGG GAACAGTATC TGGGCCTGCG GCGCTGCTTC CTGCTGGCCG  
7051 TCTGCATCCT GCTGGTGTGC ACTTTCCTCG TCTGTGCTCT GCTGCTCCTC  
7101 AACCCTGGA CGGCTGGCCT CATAgtgagt gcttgcagga gtggggacag  
7151 agacacccca cccttcctg cccagcctgt catccctcct gccaggagcc  
EXON 18  
7201 ctctgtgagc cctgtctccc tcagGTGCTG GTCCTGGCGA TGATGACAGT  
7251 GGAACCTTTT GGTATCATGG GTTTCCTGGG CATCAAGCTG AGTGCCATCC  
7301 CCGTGGTGAT CCTTGTGGCC TCTGTAGGCA TTGGCGTTGA GTTACAGTC  
7351 CACGTGGCTC TGGGCTTCCT GACCACCCAG GGCAGCCGGA ACCTGCGGGC  
7401 CGCCCATGCC CTTGAGCACA CATTTGCCCC CGTGACCGAT GGGGCCATCT  
7451 CCACATTGCT GGGTCTGCTC ATGCTTGCTG GTTCCCATT TGAATTATT  
7501 GTAAG.....  
7551 ..... gtagggaggg ctcggggcag ggaggcaggg ctcaggacag  
EXON 20  
7601 gcctgggctg actccccca caccctaccc ctagGTACTT CTTTGC GGCG  
7651 CTGACAGTGC TCACGCTCCT GGGCCTCCTC CATGGACTCG TGCTGCTGCC  
7701 TGTGCTGCTG TCCATCCTGG GCCGCGGCC AGAGgtgacc acaccctcgg  
7751 caccatccct ctactcccag cccaaggagac ggggtaggga gaggcaagg

Fig.1F



## REPLACEMENT SHEET

7/13

7801 aagggacaga gccctgtggc ccacagacag gtacctcccc aacaggtgcc  
7851 accagctgaa ggtggcagcc tcctcctttc ccagacacc atgttcctgc  
7901 ccctcagccc tcctggcttc ttcattgggac ccaccttaga ctttttaggat  
7951 ccagaacaag gtgcagggtt tgccccaggc ctcaacatcc tgtgcctgc  
8001 cagctctcat atcctgctgg agaccaacaa gggccccagc ttcccaacag  
8051 tcatggtaat ccccagcgag atgctaaagg ggacgggagc cccaggggccc  
8101 cgtggggctta ctggggctgg tgtctcccca cagGTGATAC AGATGTACAA  
8151 GGAAAGCCCA GAGATCCTGA GTCCACCAGC TCCACAGGGA GGCGGGCTTA  
8201 Ggtggggggc atcctcctcc ctgccccaga gctttgccag agtgactacc  
8251 tccatgaccg tggccatcca cccaccccc ctgcctgggtg cctacatcca  
8301 tccagcccct gatgagcccc cttggtcctc tgctgtcact agctctggca  
8351 acctcagttc caggggacca ggtccagcca ctgggtgaaa gagcagctga  
8401 agcacagaga ccatgtgtgg ggcgtgtggg gtcactggga agcactgggt  
8451 ctgggtgttag acgcaggatg gacccctgga gggctctgct gctgctgcat  
8501 cccctctccc gaccagctg tcatgggcct cctgatatc catacagaac  
8551 agccaccgat ttgcacatcc aggctgtgt gagcctgtat ctgtgtcact  
8601 tgagagtga agctggcact tggggctgca gtgcagccct gtcccccttc  
8651 ccacccaca ccaactgcctg cccagctgac caagcctgag ggaccctcca  
8701 gcacccttcc gtctggtgac tcctgggcag gctctccata tccctgcca  
8751 cctcctacca catccattat ttatatgaaa atgtctatct ttgtagtata  
8801 catacatgtt agctatgatg aaagttttat tttttaaaga atgaaatata  
8851 ttctatgtga agctatgatg aaagttttat tttttaaaga atgaaatata  
8901 ttctatgtga actaatctcg aaagttttat tttttaaaga atgaaatata  
8951 ttctatgtgt gcaagtgaac attagcttca gttgcttttt tttggacaga  
9001 gtggggagtt tgcaagtga cattagctat tggaaggagc ttctctgggtg  
9051 ccaggacctg aggtattagc ttctctagtt ctgggtggaa aagacccccg  
9101 attctggatt tttgtcatat acttggtaac atcatctgga ttaagtgcct

Fig.1G



REPLACEMENT SHEET

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9151 actatacaaa acgataacaa attttgttgg tgtgaaatcc tactgggttc  
9201 aatctggaga ccgagagcag aaaaaaaga accccactgt gtggctttca  
9251 gagccaccat attccagcct gcccgctctct ccagactcac ctccacctac  
9301 ctgcttcacc cgcacgggaa acggcaaggc agaggggcaa agccatgcag  
9351 caggtggaag gcgaggtgga ggcagatcag gaaagcagcc agttgaagca  
9401 gagagaggtc aacaggggtct ggggagcttc tcaggaggtt tgtggacca  
9451 gggaaaggag ccaggttcca gagcaacctc caaggcaaag gcctctgtaa  
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9601 acagcgtaag ttgtttgttc tgtgaaagtt gaacagctcc actaagcaga  
9651 gcccttgaag agtggccaca gccctggaat agagcacaga gcctcaccta  
9701 gaggcgtggg gaggtttgca actgcccctt cccagccata gcttaggacc  
9751 catagtctag ttcacataga ccctgggctc caaccacca ctcaccagga  
9801 atgatccac cccaggaaca atgcgttctc acatcccacc ccacctggac  
9851 aaaggccagg aaatcatgtt ctgacaaaaa gatacaacaa caaaaacaac  
9901 aacaacaaaa aacgcctatt gcaattgaat ccacgctaaa atgcctaaaa  
9951 agctcaagag aagcgggtag ttggcagaga acctagagta gggggtgcaa  
10001 ccagcaggcc caagggaggg aggctgcatt tgggtccagc agtgtttggg  
10051 tcaccaagaa gggccttcta ggtggagcag agagagctca ccaggccaga  
10101 atagtgcaa gggggtcagc cctcagtgcc acttaccagc ggagtaacc<sup>E</sup>  
10151 tgggcaagtt agccagctc actaagctc cccatcttca tctttccagG  
XON 22  
10201 CCCGAGGAGA Tc**TAG**CCTCT GCCTCCCACC CCAGCACCCC CTCATCAGAC  
10251 ACAAGGAGCG CCACTGTCTG GACAGGCTGA ATTGGTCTTC GGGTCCCTAA  
10301 TTTCTCATAC GCCATTCCCT CTGCCTAGAA CACTTTCTCA CCTCCCCTTG  
10351 ATGTGACCCC ATATACCCT TCGAGGTGAA TTGGATCGGA TGCCATCTCC  
10401 TCCAGGAGGG GTGGGGTCGT GCCTCCTGTG AGGTCCCAGT GCCCCTGAGT  
10451 GTCTGTGCCC GTCTGTTTCC CCGTCCCTCT CTCTAAGCCC GGAGGCTTAC

Fig.1H



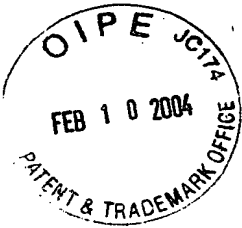


## REPLACEMENT SHEET

9/13

10501 TCGGGTAAG GACGGCGGGA CAGGACCTTA ACCCCTGGGA CGAACACCAG  
10551 CTCCGCAAAG GACTCCGCAC CCGGCGCCGC CCACGGGGTG CGGGTCCCAG  
10601 GAGGACCAGC AGAGAGGAGC ATAGGAGAGC AAAGGAGATC AGTGACCCAT  
10651 GGCTTCCCCG GTGGCGCGGA ACAGCCCGGA GCCGCCTGTG ATTTGCATAC  
10701 CCATGGTGCA CCACGAAAAG ATACCCTCAA GATGCTTGCA CTCCCTCTGT  
10751 GCGCGCATTT CTGCACTGTT TTAGAGCATG ATGCCTCTTA CACGCATCTG  
10801 TGTGCATAAA CTACATATAG GGAGTGCGTA CCACGCAGGC ATCCAACAAC  
10851 CATAAGTGTG TTAAGTGTTA GTTCTCCCTG CGAGGTTCGA AGCGGAAGTC  
10901 ACGAATATAC TCGGGTTTCT CTTCAAAGCG CATAAATCTT TCGCCTTTTA  
10951 CTAAAGATTT CCGTGGAGAG AAAGTTGTGA GTTTTTATTC AATTTTTTGA  
11001 GGCCTCTTAT TTCCTGAGGC TACATTTTTA AGTATTAAAA GTTAGGCAAC  
11051 TACAAAAAAA AAAAAAAA

Fig.1I



# REPLACEMENT SHEET

10/13

1 .....MTRSPPLRELP..... 11  
1 MASAGNAAEPQDRGGGSGCIGAPGRPAGGGRRRRTGGLRRRAAPDRDYL 50  
12 ..PSYTPPARTAAPQI...LAGSLKAPLWLRAYFQGLLFSLGCGIQRHCG 56  
51 HRPSYCDAA.FALEQISKGKATGRKAPLWLRKFQRLLFKLGCIYQKNCG 99  
57 KVLFLGLLAFGALALGLRMAIIETNLEQLWVEVGSRSVSELHYTKEKLG 106  
100 KFLVVGLLIFGAFVGLKAANLETNVEELWVEVGGRVSRELNYTRQKIGE 149  
107 EAAYTSQMLIQATARQEGENILTPEALGLHLQAALTASKVQVSLYGKSWDL 156  
150 EAMFNPQLMIQTPKEEGANVLTTEALLQHLDSALQASRVHVYMYNRQWKL 199  
157 NKICYKSGVPLIENGMIERMIEKLFPCVILTPLDCEWEGAKLQGG SAYLP 206  
200 EHL CYKSGELITETGYMDQIEYLYPCLIIITPLDCFWEGAKLQSGTAYLL 249  
207 GRPDIQWTNLDPEQLLEELGPFA.SLEGFRELLDKAQVGQAYVGRPCLHP 255  
250 GKPLLRWTNFDPLEFLEELKKINYQVDSWEEMLNKAEVGHGYMDRCLNP 299  
256 DDLHCPPSAPNHHSRQAPNVAHELSGGCHGF SHKFMHWQEELLLGGMARD 305  
300 ADPDCPATAPNKNSTKPLDMALVLNNGGCHGLSRKYMHWQEELIVGGTVKN 349  
306 PQGELLRAEALQSTFLLMSPRQLYEHFRGDYQTHDIGWSEEQASTVLQAW 355  
350 STGKLVSahalQTMFQlMTPKQMYEHFKGYEYVSHINWNEDKAAAILEAW 399  
356 ORRFVQLAQEALPENASQQIHAFSSTTLDDILHAFSEVSAARVVGGYLLM 405  
400 QRTYVEVVHQSV AQNSTQKVLSTTTTLDDILKSFSVSVIRVASGYLLM 449  
406 LAYACVTMLRWDCAQSQSGVGLAGVLLVALAVASGLGLCALLGITFNAAT 455  
450 LAYACLTMLRWDCSKSQGAVGLAGVLLVALSVAAGLGLCSLIGISFNAAT 499  
456 TQVLPFLALGIGVDDVFLLAHAFTEALPG..TPLQERMGECLQRTGTSVV 503  
500 TQVLPFLALGVGDDVFLLAHAFSETGQNKRI PFEDRTGECLKRTGASVA 549  
504 LTSINNMAAFLMAALVPIPALRAFSLQAAIVVGCTFVAVMLVFPAILSLD 553  
550 LTSISNVTAFFMAALIPIPALRAFSLQA AVVVVFNFAMVLLIFPAILSMD 599  
554 LRRRHCRQLDVLCCFSSPCSAQVIQILPQELGDGT.....VPVG 592  
600 LYRREDRRLDIFCCFTSPCVSRV IQVEPQAYTDTHDNTRYSPPPYSSHS 649  
593 IAH.....LTATVQAFTHCEASSQHVV TILPPQ AHL.....VPPPSDPLGS 633  
650 FAHETQITMQSTVQLRTEYDPHTHVYYTTAEPRSEISVQPVTVTQDTLSC 699

Fig.2A



REPLACEMENT SHEET

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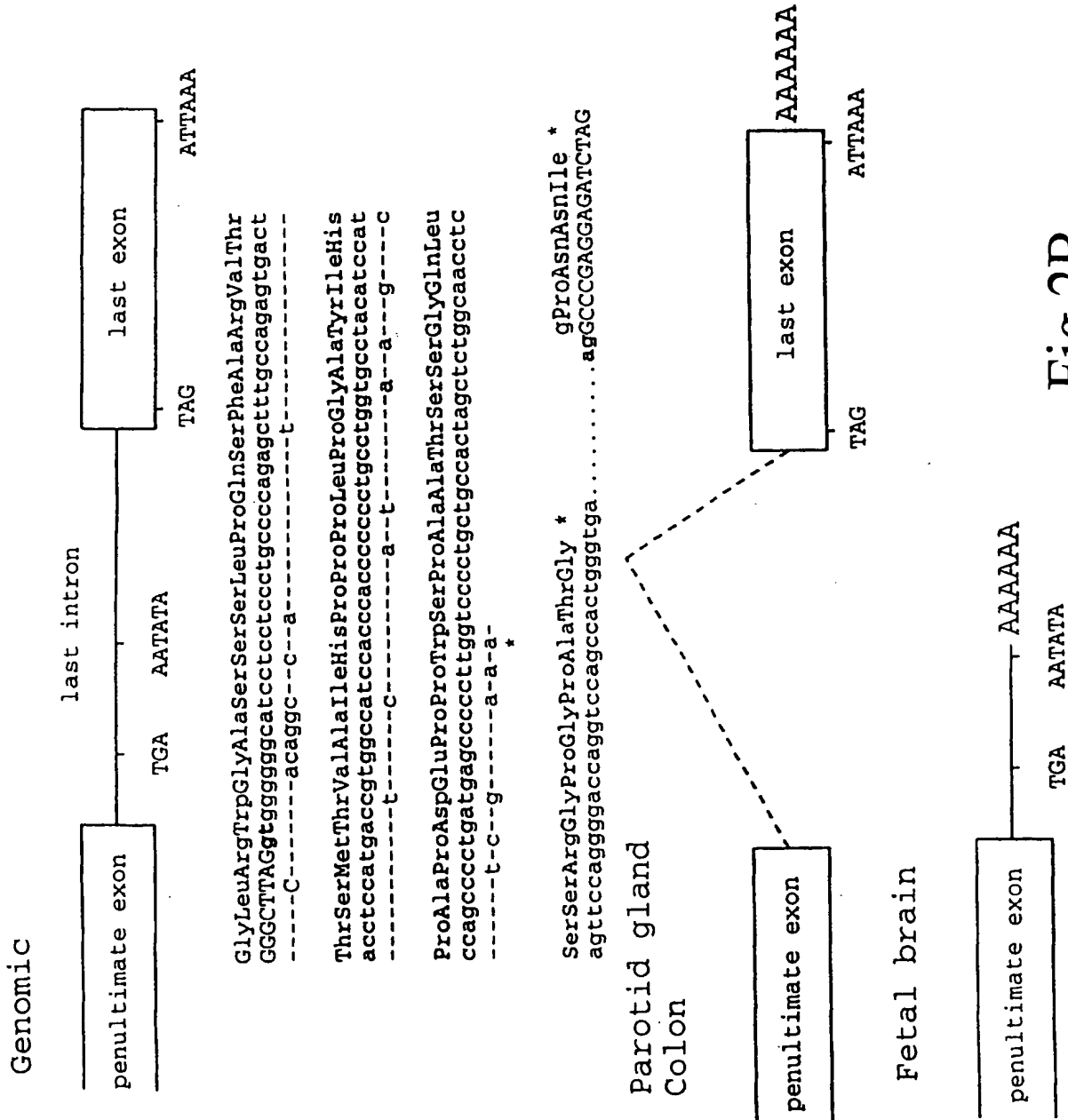
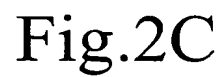
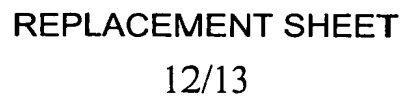


Fig.2B



REPLACEMENT SHEET

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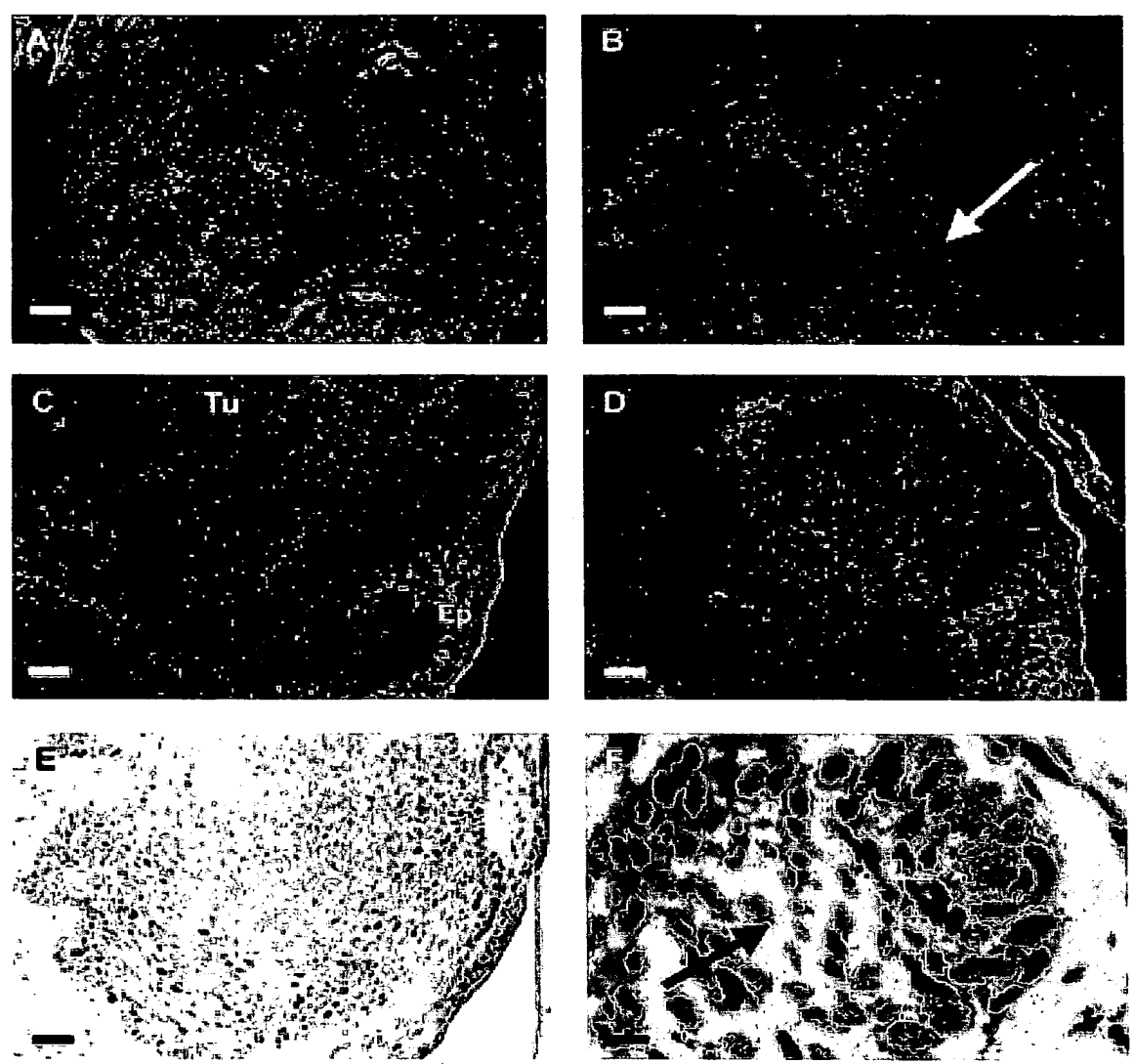


Fig.3